ELSEVIER

Advances in Colloid and Interface Science 83 (1999) vii

ADVANCES IN COLLOID AND INTERFACE SCIENCE

www.elsevier.nl/locate/cis

Contents

Special Issue: DLVO Theory, Milestone of 20th Century Colloid Science

Preface ix

On Progress in forces since the DLVO theory
B.W. Ninham (Australia, Sweden) 1

The DLVO theory in Russian colloid science
N.V. Churaev (Russia) 19

DLVO-theory, a dynamic re-interpretation
J. Lyklema, H.P. van Leeuwen, M. Minor (Netherlands) 33

Understanding the influence of gravity on perikinetic coagulation on the basis of the DLVO theory
R. Folkersma, A.J.G. van Diemen, H.N. Stein (Netherlands) 71

Electrostatics of curved fluid membranes: The interplay of direct interactions and fluctuations in charged lamellar phases
A. Fogden, B.W. Ninham (Sweden, Australia) 85

DLVO and non-DLVO surface forces in foam films from amphiphilic block copolymers
R. Sedev, D. Exerowa (Bulgaria) 111

Application of the DLVO theory for particle deposition problems
Z. Adamczyk, P. Weroński (Poland) 137

Surface forces vs. surface compositions. Colloid science from the Gibbs adsorption perspective
V.V. Yaminsky, B.W. Ninham (Australia) 227